

Converting Colors

XYZ(19.9776, 8.0836, 2.3416)

Have a look what the booklet for
XYZ(19.9776, 8.0836, 2.3416)
contains.

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Color

**XYZ(21.3361, 10.9588,
2.8244)**

Conversions

Conversions Part 1

Format	Color
Hex	BD0026
RGB	189, 0, 38
RGB Percent	74%, 0%, 15%
CMY	0.2588, 0.9998, 0.8510
CMYK	0.00, 1.00, 0.80, 0.26
HSL	348°, 100%, 37%
HSV	348°, 100%, 74%
XYZ	21.3361, 10.9588, 2.8244
YIQ	60.8430, 100.4460, 51.8860

Conversions

Conversions Part 2

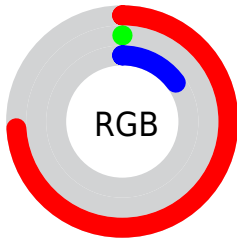
Format	Color
RYB	189, 0, 38
Decimal	12386342
CIELab	39.51, 64.60, 36.50
CIElCh	40, 74.204, 29.469
Yxy	10.9588, 0.6075, 0.3120
Android (android.graphics.Color)	4290576422 (0xFFBD0026)
YUV	60.8430, -11.2616, 112.3937
Hunter-Lab	33.1041, 57.1139, 18.1143

Details

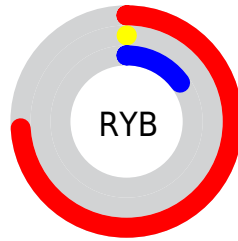
The XYZ color **21.3361, 10.9588, 2.8244** is a dark color, and the websafe version is hex **CC0033**. A complement of this color would be **23.7869, 38.6307, 35.4973**, and the grayscale version is **4.4217, 4.6520, 5.0660**.

A 20% lighter version of the original color is **45.0866, 27.5418, 11.1234**, and **8.6042, 4.4356, 0.4027** is the 20% darker color. If you saturate the color by 10%, you get **21.3354, 10.9585, 2.8218**, and if you desaturate by 10%, it is **21.8629, 11.5404, 4.4558**.

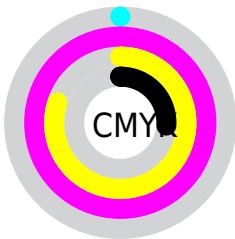
Distribution



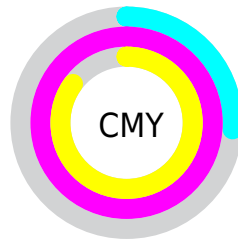
- Red (74%)
- Green (0%)
- Blue (15%)



- Red (74%)
- Yellow (0%)
- Blue (15%)



- Cyan (0%)
- Magenta (100%)
- Yellow (80%)
- Black (26%)





- Cyan (26%)
- Magenta (100%)
- Yellow (85%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 21.3361, 10.9588, 2.8244 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 21.3361, 10.9588, 2.8244 by changing the saturation by 10% instead.


 21.3361, 10.9588,
2.8244


 21.3361, 10.9588,
2.8244


251.7574,
197.3847, 134.0917


 13.4838, 6.0391,
1.0057


 45.1333, 27.5840,
11.1920

 7.8418, 2.8689,
0.0000


 61.8089, 40.0582,
18.5779

 4.0448, 1.0637,
0.0000

 82.1562, 55.8195,
28.6567

 1.7275, 0.0000,
0.0000

 106.5408, 75.2522,
41.8468


 0.4734, 0.0000,
0.0000


 135.3278, 98.7406,
58.5668


 0.0000, 0.0000,
0.0000


 168.8826,


126.6693, 79.2353


 207.5707,
159.4225, 104.2707


 21.3361, 10.9588,
2.8244


 21.3361, 10.9588,
2.8244


 21.3354, 10.9585,
2.8218

 21.8629, 11.5404,
4.4558

 22.7237, 12.6145,
6.7390

 24.0096, 14.3485,
9.7504

 25.7698, 16.8276,
13.5474

 28.0466, 20.1241,
18.1814

■ 30.8773, 24.3019,
23.6994

■ 34.2960, 29.4183,
30.1447

■ 38.3338, 35.5258,
37.5577

■ 43.0196, 42.6732,
45.9766

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



23.4221, 10.9588, 12.1915



21.3361, 10.9588, 2.8244



16.1554, 10.9588, 0.2941

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



21.3361, 10.9588, 2.8244



4.1000, 10.9588, 2.6572



10.3264, 10.9588, 66.7610

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



21.3361, 10.9588, 2.8244



23.7869, 38.6307, 35.4973

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



6.2279, 10.9588, 55.3564



21.3361, 10.9588, 2.8244



3.4201, 10.9588, 11.6767

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



21.3361, 10.9588, 2.8244



6.3390, 10.9588, 0.2460



4.0520, 10.9588, 31.4553



15.9477, 10.9588, 56.0754

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



21.3361, 10.9588, 2.8244



12.2895, 10.9588, 0.0000



4.0520, 10.9588, 31.4553



8.7433, 10.9588, 65.3021

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



21.3363, 10.9595, 2.8245



61.0925, 52.1885, 53.3712



21.4088, 9.9762, 48.9409



12.5591, 10.3547, 10.3939



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



21.3363, 10.9595, 2.8245



38.1446, 19.5998, 4.6982



22.2859, 13.4180, 1.4165



9.6064, 9.5669, 10.3165



14.3777, 7.3822, 2.0167



0.5868, 0.2986, 0.2032

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



21.3363, 10.9595, 2.8245



38.1446, 19.5998, 4.6982



17.9141, 21.1311, 51.2782



9.6064, 9.5669, 10.3165



14.3777, 7.3822, 2.0167



0.5868, 0.2986, 0.2032

Previews

White Background



This preview shows how the XYZ color 21.3361, 10.9588, 2.8244 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 21.3361, 10.9588, 2.8244

Background



This preview shows how black text looks on a background with the XYZ color 21.3361, 10.9588, 2.8244.



This preview shows how white text looks on a background with the XYZ color 21.3361, 10.9588,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

21.3361, 10.9588, 2.8244

Protanopia

10.7980, 11.6848, 5.8239

Deuteranopia

11.6517, 11.5412, 2.4777



Tritanopia

21.1867, 11.2197, 1.0490

Trichromacy



Original Color

21.3361, 10.9588, 2.8244

Protanomaly

12.4196, 8.8107, 4.1780

Deuteranomaly

13.4119, 9.1346, 2.2187

Tritanomaly

21.1852, 11.0899, 1.4394

Monochromacy



Original Color

21.3361, 10.9588, 2.8244

Achromatopsia

4.4355, 4.6665, 5.0818

Achromatomaly

7.5525, 4.8962, 3.9152

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.3361, 10.9588, 2.8244 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(189, 0, 38)` looks like.

```
.text, #text, p{  
    color:rgb(189, 0, 38)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(189, 0, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 0, 38) }
```

Border

The CSS property to change the border of an element to XYZ 21.3361, 10.9588, 2.8244 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(189, 0, 38) }
```


If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(189, 0, 38) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(189, 0, 38) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 0, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 0, 38);  
box-shadow:4px 4px 4px 4px rgb(189, 0, 38)  
}
```

Background

The CSS property to change the background color of an element to XYZ 21.3361, 10.9588, 2.8244 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 0, 38) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(189, 0,  
38) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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